Figure 1

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Figure 2

HOOC COOH 
$$+ H_2N_{R_{12}}$$
 coupling o  $N$  path B (VII)  $R_{12}$  (IVb)

Figure 3

Figure 4

$$R_{12}$$
 $R_{12}$ 
 $R_{12}$ 

Figure 5

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$$R_{5}$$
 $R_{7}$ 
 $R_{13}$ 
 $R_{14}$ 
 $R_{14}$ 
 $R_{15}$ 
 $R_{14}$ 
 $R_{15}$ 
 $R_{$ 

Figure 10

1

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Figure 12

Figure 13

TROUBLE OF CHARLES

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Figure 16

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$$\begin{array}{c} R_{4} \\ R_{5} \\ \end{array}$$

$$(XIIIIa,b)$$

$$R_{6} \\ R_{7} \\ \end{array}$$

$$R_{7} \\ R_{8} \\ \end{array}$$

$$R_{8} \\ R_{7} \\ R_{7} \\ R_{8} \\ \end{array}$$

$$(XXVIIIa-d) \\ \vdots \\ \tilde{O}H$$

oxidation 
$$R_5$$
  $R_7$  Figure 17

R<sub>14</sub>R<sub>13</sub>NOC

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CONR<sub>13</sub>R<sub>14</sub>

$$R_{12}$$
 $R_{12}$ 
 $R_{13}$ 
 $R_{14}$ 
 $R_{15}$ 
 $R_{14}$ 
 $R_{15}$ 
 $R$ 

Figure 19

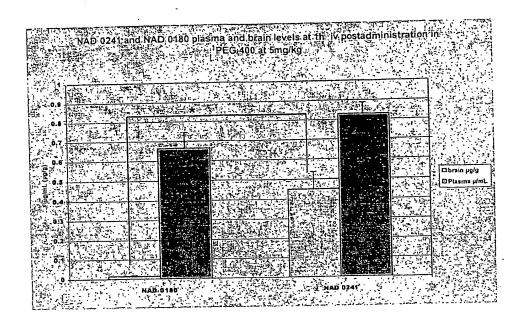


Figure 20

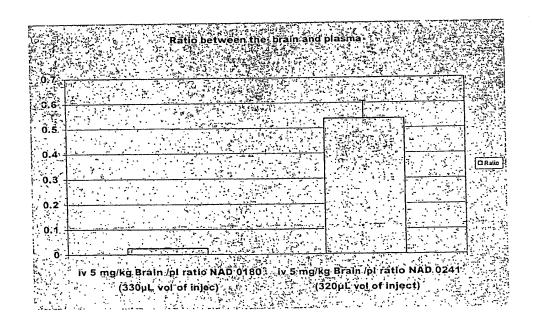


Figure 21

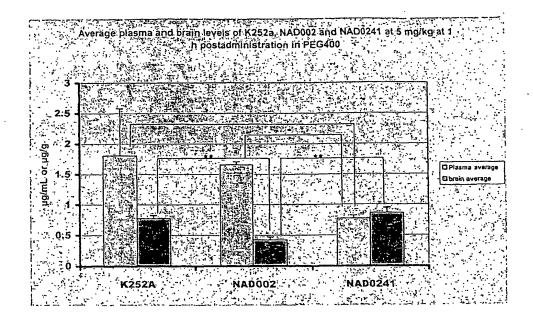


Figure 22

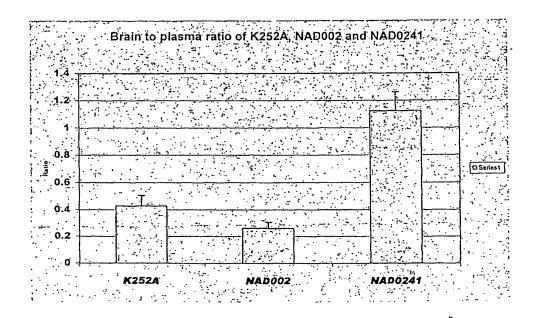


Figure 23

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Comparison of Solubility Limit

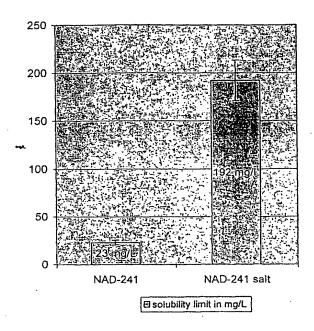


Figure 24